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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/872,068	05/31/2001 590 07/03/2003	Brian K. Courtney	MAC1001U 704174,	MAC1001U 1810 704174.9		
ORRICK, HERRINGTON & SUTCLIFFE, LLP 4 PARK PLAZA SUITE 1600				EXAMINER KONTOS, LINA R		
IRVINE, CA 92614-2558			ART UNIT	PAPER NUMBER		
			3763 DATE MAILED: 07/03/2003	8		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.		Applicant(s)	
		09/872,068		COURTNEY ET AL.	
	Office Action Summary	Examiner		Art Unit	
		Lina Kontos		3763	
	The MAILING DATE of this communication app	ears on the cover	sheet with the co	orrespondence address	
Period for	• •	/ IO OFT TO EVO	IDE AMONTUK	C) 500M	
THE M Extensi after SI - If the pi - If NO p - Failure - Any rep	RTENED STATUTORY PERIOD FOR REPLY AILING DATE OF THIS COMMUNICATION. ons of time may be available under the provisions of 37 CFR 1.13 X (6) MONTHS from the mailing date of this communication. eriod for reply specified above is less than thirty (30) days, a reply eriod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute, by received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, howev y within the statutory minin will apply and will expire SI , cause the application to I	er, may a reply be time num of thirty (30) days IX (6) MONTHS from to become ABANDONED	ely filed will be considered timely. he mailing date of this communic (35 U.S.C. § 133).	eation.
1)⊠	Responsive to communication(s) filed on 19 /	<u>May 2003</u> .			•
2a)□	This action is FINAL . 2b)⊠ Th	is action is non-fin	al.		
<u> </u>	Since this application is in condition for allowationsed in accordance with the practice under				its is
·	n of Claims				
•	Claim(s) <u>1-3;5-13,15-17;34-38;40-45</u> is/are pe				
4	a) Of the above claim(s) is/are withdray	wn from considera	tion.		
•	Claim(s) is/are allowed.				
	Claim(s) <u>1-3;5-13,15-17;34-38;40-45</u> is/are rejo	ected.			
	Claim(s) is/are objected to.				
8) ☐ (6 Applicatio	Claim(s) are subject to restriction and/o n Papers	r election requirem	ient.		
9) 🗌 T	ne specification is objected to by the Examine	r.			
10)⊠ TI	ne drawing(s) filed on is/are: a)□ accep	oted or b)⊠ objecte	d to by the Exan	niner.	
	Applicant may not request that any objection to the				
11)∐ TI	ne proposed drawing correction filed on	_ is: a)☐ approved	d b)∏ disapprov	ved by the Examiner.	
	If approved, corrected drawings are required in rep	•	on.		
12)∐ TI	ne oath or declaration is objected to by the Ex	aminer.			
-	nder 35 U.S.C. §§ 119 and 120				•
13) 🗌 🛚 A	Acknowledgment is made of a claim for foreigr	n priority under 35	U.S.C. § 119(a))-(d) or (f).	
a) <u></u> □	All b) Some * c) None of:	•			
1	. Certified copies of the priority document				
2	Certified copies of the priority document	s have been recei	ved in Application	on No	•
	Copies of the certified copies of the prior application from the International Buse the attached detailed Office action for a list	reau (PCT Rule 1	7.2(a)).		;
14)∐ Ac	knowledgment is made of a claim for domesti	ic priority under 35	U.S.C. § 119(e) (to a provisional appli	cation).
•	☐ The translation of the foreign language procknowledgment is made of a claim for domest				
Attachment(· · · · · ·			
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>4</u>	5) 🔲		(PTO-413) Paper No(s) Patent Application (PTO-152)	

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Drawings

1.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "130" has been used to designate both a lumen and the treatment device (see Figures 3A and 4B). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2.

Claims 1,5,6,9,10,12,13,15,34,35,40,41,44,45 are rejected under 35 U.S.C. 102(b) as being anticipated by Calderon.

Calderon teaches a catheter system capable of delivering an agent to the desired vessel and also means for providing suction. Inflatable occluding element, balloon (38), is provided on outer catheter (60) and is located concentrically around suction catheter (35) and inner infusion catheter (18), each having respective ports for permit injection or extraction of agents to the patient's vasculature, distal to the occluding element. There is an additional infusion port (31) located distal the occlusion balloon. A guidewire (24) is used to assist in insertion of the device,

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as well as a radiopaque contrast agent (column 6, lines 15-17). The device further comprises embolic protection means (22).

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3.

Claims 1,2,5,6,9,10,12,15,17 are rejected under 35 U.S.C. 102(b) as being anticipated by Daniels et al.

Daniels et al. teaches a device for infusing a vaso-occlusive material wherein after providing the therapeutic agent, the site can be drained (column 8, lines 1-2) by means of supply port (36) and vent port (38). Outer shaft (16) has supply port (40) that enable communication with its inner lumen, and further has inflation lumen (24) incorporated into its wall. The guidewire (74), extending through inner catheter (68), used during the placing of the device is securely fixed to the distal end of the catheter, and the occluding element (30) may be inflated with contrast agent (column 6, lines 5-6). Catheter (14 or 68) may function as a fluid pathway for infusion of an agent.

4.

Claims 1,6,9,10,11,12,13,15,34,35,40,41,44 are rejected under 35 U.S.C. 102(b) as being anticipated by Daniels et al.

Simpson et al. teaches a catheter device for treatment of disease in a patient's vasculature comprising concentric catheter members (110,112,118) having a proximal expanding sealing member (114). The catheters and their respective lumens allow for the infusion and aspiration of a fluid to the patient wherein means for supplying the fluid is provided through infusion port (column 6, line 61) and means for removing the fluid and other material through aspiration port (column 6, line 66). Infusion port (148) is located distal the occluding device. The device

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further comprises embolic protection means (116) and is capable of delivering a stent to the treatment site (column 7, lines 35-44), and employs the use of a guidewire (156).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5.

Claim 2,15,16 are s rejected under 35 U.S.C. 103(a) as being unpatentable over Calderon in view of Mocoviak et al.

Calderon, as described above, teaches a catheter device with an expandable occluder element and means for providing infusion of a fluid and aspiration to a patient's vasculature, but fails to disclose a sealing mechanism at the distal portion of the catheter.

Mocoviak et al. teaches a perfusion shunt apparatus for isolation and perfusion of an area of a patient's cardiovascular system comprising an expandable occluder (110) with embolic protection means (108). Catheter has inflation lumen (124) embedded in the wall of the outer shaft and may have an additional lumen for receiving a guidewire (column 8, line 27-29) wherein a flexible seal exists on distal end of catheter that flexes to allow the passage of a guidewire while having a fluid-tight seal (column 8, lines 22-26).

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It would have been obvious to one skilled in the art at the time of the invention to incorporate the use of a flexible seal at the distal region of the catheter in order to prevent perfusate from passing through the distal opening.

6.

Claim 3,38 are s rejected under 35 U.S.C. 103(a) as being unpatentable over Calderon in view of Kletchka.

Calderon, as described above, teaches a catheter device with an expandable occluder element and means for providing infusion of a fluid and aspiration to a patient's vasculature, but fails to disclose a separate tube as an inflation lumen.

Kletschka teaches a angioplasty device comprising a balloon (4) having inflation lumen
(9)

It would have been obvious to one skilled in the art at the time of the invention to have the inflation lumen not extruded from the wall of the main catheter for simplicity in the manufacturing process.

7.

Claims 7,42 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Calderon in view of Booth et al.

Calderon, as described above, teaches a catheter device with an expandable occluder element and means for providing infusion of a fluid and aspiration to a patient's vasculature, but fails to disclose a foam-filled occluder.

Booth et al., teaches a balloon (98) that is filled with a foam (99) that is in communication with the inflation means for said balloon.

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It would have been obvious to one skilled in the art at the time of the invention to use foam in the balloon allowing the balloon to expand natural expanded state upon the release of applied vacuum pressure.

8.

Claims 8,43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Calderon in view of Kletschka as applied to claims 3,38 above, and further in view of Booth.

Calderon, as described above, teaches a catheter device with an expandable occluder element and means for providing infusion of a fluid and aspiration to a patient's vasculature, but fails to disclose a foam-filled occluder.

Booth et al., teaches a balloon (98) that is filled with a foam (99) that is in communication with the inflation means for said balloon.

It would have been obvious to one skilled in the art at the time of the invention to use foam in the balloon allowing the balloon to expand natural expanded state upon the release of applied vacuum pressure.

9.

Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Calderon in view of Booth et al.

Calderon, as described above, teaches a catheter device with an expandable occluder element and means for providing infusion of a fluid and aspiration to a patient's vasculature, but fails to teach multiple openings on the distal end of the inner catheter.

Booth et al. teaches a catheter for retrograde perfusion comprising an occluding member, (46), and catheter with multiple infusion ports (48).

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It would have been obvious to one skilled in the art at the time of the invention to include

multiple infusion ports to allow for a greater delivery rate of the desire fluid.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lina Kontos whose telephone number is (703) 306-4207. The examiner can normally be reached on M-F 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on (703) 308-3552. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9302 for regular communications and (703) 872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1148.

LRK June 29, 2003

BRIAN L. CASLER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700

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